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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,636	03/23/2004	An Mei Chen	020310D1	4030
23696	7590	06/06/2006	EXAMINER	
QUALCOMM, INC			HUYNH, NAM TRUNG	
5775 MOREHOUSE DR.				
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2617	

DATE MAILED: 06/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/807,636	Applicant(s) CHEN ET AL.	
	Examiner Nam Huynh	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed 3/3/06. Of claims 1-24, no amendments were made.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Papadimitriou et al. (US 2002/0187793).

A. Regarding claims 1, 7, 13, Papadimitriou et al. discloses a system and method for global paging of mobile stations in a wireless network. In the scope of the invention, a paging request for a mobile station is transmitted to the wireless network (page 1, paragraph 7). The paging request renders the “information destined for a target MS” as stated in the claims. The mobile station is paged based upon a radio configuration database (RCDB) comprising data pertaining to the mobile station’s previously located cell (page 3, paragraph 33) and data pertaining to the coordinates of the center and radius that define the geographical location area of the location area or cell (page 3, paragraph 36). If no response is received from the mobile station, the system will

attempt to perform a global page of the mobile station in all location areas defined under the RCDB for the global paging area (page 3, paragraph 34). Therefore since the global paging area is defined, a "predefined number of cells around the cell" is disclosed. Further support for the paging of neighboring location areas can be found in paragraph 41 of page 4.

B. Regarding claims 2, 8, 14, and 20, Papadimitriou et al. discloses that paging is performed first in the proper location area (page 3, paragraph 35). The proper location area is the cell in which the mobile station was previously located.

C. Regarding claims 3-4, 9-10, 15-16, and 21-22, Papadimitriou et al. discloses that when no response is received from the mobile station, paging is done in the global paging area to which the location area belongs (page 3, paragraph 35). Each global paging area is associated with a BSC/RNC node (page 3, paragraph 32), therefore when the mobile station cannot be located, or when a response is not received, a BSC/RNC searches for the mobile station by sending the paging request to location areas of the global paging area. The paging requests render the "sending of information" and the "locating" of the mobile station is rendered on the basis of whether a response to the paging request is received or not.

D. Regarding claims 5-6, 11-12, 17-18, and 23-24, Papadimitriou et al. discloses that if the global paging is unsuccessful then the system may go one step further and request global paging for other global paging areas or through the whole coverage area (page 4, paragraph 42). Since the MSC/VLR is the central component of the network subsystem, it has a higher system hierarchy. Therefore, if a search for the mobile

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station were to be conducted on the entire coverage area (a network of BSC/RNC), this search would be conducted on the level of the MSC/VLR.

E. Regarding claim 19, the limitations are rejected as applied to claim 1.

Furthermore, Papadimitriou et al. discloses that a BSC/RNC manages radio resources for one or more base stations (page 2, paragraph 23). Therefore it is well known and widely recognized in the art that in order to perform this function, a BSC/RNC must comprise of a transmitter, receiver, and processor.

Response to Arguments

3. Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam Huynh whose telephone number is 571-272-5970.

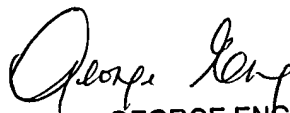
The examiner can normally be reached on 8 a.m.-5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NTH
5/16/06


GEORGE ENG
SUPERVISORY PATENT EXAMINER